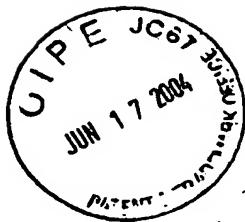


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FIG. 1A



1	CGGACGC GTGGCGCGCAGCCTGGCTGACCTGATCCTGGACCAGTGC CCGACCGCGCG	60
61	CGCCGGTGCCGCAGATGCTGGCCCAGCCGCAGCGGCTGCTTCATCCTGGACGGCGCG 1 M <u>E</u> A Q P Q R L <u>E</u> F I L D G A D	120 16
121	ACGAGCTGCCGGCGCTGGGGGCCCGAGGCCGCGCCCTGCACAGACCCCTTCGAGGCGG 17 E L P A L G G P E A A P <u>C</u> T D P F E A A	180 36
181	CGAGCGGCGCGCGGGTGCTAGGCGGGCTGCTGAGTAAGGCGCTGCTGCCACGGCCCTCC 37 S G A R V <u>E</u> G G <u>E</u> S K A L <u>E</u> P T A L L	240 56
241	TGCTGGT GACCACGCGCGCCGCCGCCGGAGGGCTGCAGGGCCGCCTGTGTTCCCCGC 57 <u>E</u> V T T R A A A P G R <u>E</u> Q G R L C S P Q	300 76
301	AGTGC CGCGAGGGTGCGCGGCTTCTCCGACAAGGACAAGAAGAAGTATTCTACAAGTTCT 77 C A E V R G F S D K D K K K Y F Y K F F	360 96
361	TCCGGGATGAGAGGAGGGCCGAGCGCGCCTACCGCTTCGTGAAGGAGAACGAGACGCTGT 97 R D E R R A E R A Y R F V K E N E T <u>E</u> F	420 116
421	TCGC GCTGTGCTTCGTGCCCTCGTGTGGATCGTGTGCACCGTGCTGCCAGCAGC 117 A <u>E</u> C F V P F V C W I V C T V <u>E</u> R Q Q L	480 136
481	TGGAGCTCGGTGGGACCTGTGCGCACGTCCAAGACCACCACGTCAGTGTACCTGCTT 137 E L G R D L S R T S K T T T S V Y <u>E</u> L F	540 156
541	TCATCACCA CGTTCTGAGCTCGGCTCCGTAGCCGACGGGCCCGGTTGCAGGGCGACC 157 I T S V L S S A P V A D G P R L Q G D <u>E</u>	600 176
601	TGCGCAATCTGTGCCGCCTGGCCCGAGGGCGTCTCGGACGCAGGGCCAGTTGCCG 177 R N <u>E</u> C R <u>E</u> A R E G V L G R R A Q F A E	660 196
661	AGAAGGA ACTGGAGCAACTGGAGCTTCGTGGCTCAAAGTGCAGACGCTGTTCTCAGCA 197 K E <u>E</u> Q L E L R G S K V Q T L F L S K	720 216
721	AAAAGGAGCTGCCGGCGTGGAGACAGAGGTACCTACCAAGTTCATCGACCGAGCT 217 K E L P G V L E T E V T Y Q F I D Q S F	780 236
781	TCCAGGAGTT CCTCGCGGACTGT CCTACCTGCTGGAGGACGGCGGGTGCCAGGACCG 237 Q E F L A A L S Y L <u>E</u> E D G G V P R T A	840 256
841	CGGCTGGCGGGCGTTGGGACACT CCTGCGTGGGACGCCAGCCGCACAGCCACTTGGTGC 257 A G G V G T L <u>E</u> R G D A Q P H S H L V L	900 276



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FIG. 1B

901	TCACCACGCGCTCCTCTTGGACTGCTGAGCGCGAGCGGATCGCGACATCGAGCGCC	960
277	T T R F L F G <u>M</u> L S A E R M R D I E R H	296
961	ACTTCGGCTGCATGGTTTCAGAGCGTGTGAAGCAGGAGGCCCTGGGTGGTGAGGGAC	1020
297	F G <u>C</u> M V S E R V K Q E A L R W V Q G Q	316
1021	AGGGACAGGGCTCCCCGGAGTGGCACCCAGAGGTGACCGAGGGGCCAAAGGGCTCGAGG	1080
317	G Q G C P G V A P E V T E G A K G L E D	336
1081	ACACCGAAGAGCCAGAGGAGGGAGGGAGGGAGAGGCCAACTACCCACTGGAGTTGC	1140
337	T E E P E E E E G E E P N Y P L E L <u>M</u>	356
1141	TGTACTGCCGTGACGAGACGCAGGAGGAGCGCTTGTGCCCAAGCCCTGTGCCGGTTCC	1200
357	Y <u>C</u> <u>M</u> Y E T Q E D A F V R Q A L C R F P	376
1201	CGGAGCTGGCGCTGCAGCGAGTGCCTCTGCCCATGGACGTGGCTGTTCTGAGCTACT	1260
377	E L A L Q R V R F C R M D V A V L S Y <u>C</u>	396
1261	GCGTGAGGTGCTGCCCTGCTGGACAGGCACTGCCGTGATCAGCTGCAGATTGGTTGCTG	1320
397	V R C C P A G Q A L R <u>M</u> I S C R L V A A	416
1321	CGCAGGAGAAGAAGAAGAAGAGCCTGGGAAGCGGCTCCAGGCCAGCCTGGTGGCGCA	1380
417	Q E K K K S <u>M</u> G K R L Q A S L G G G S	436
1381	GTTCTCAAGGCACCAAAACAATGCCAGCCTCCCTTCTTCATCCACTCTTCAGGCAA	1440
437	S Q G T T K Q <u>M</u> P A S L L H P L F Q A M	456
1441	TGACTGACCCACTGTGCCATCTGAGCAGCCTCACGCTGTCCCCTGACAAACTCCCTGACG	1500
457	T D P L <u>C</u> H <u>M</u> S S L T L S H C K L P D A	476
1501	CGGTCTGCCAGACCTTCTGAGGCCCTGAGGGCAGCCCCGCACGTACGGAGCTGGCC	1560
477	V C R D L S E A <u>M</u> R A A P A L T E <u>M</u> G <u>M</u>	496
1561	TCCTCCACAACAGGCTCAGTGAGGCCGACTGCGTATGCTGAGTGAGGGCTAGCCTGGC	1620
497	L H N R L S E A G L R M <u>M</u> S E G L A W P	516
1621	CGCAGTGCAGGGTGCAGACGGTCAGGGTACAGCTGCCGTACCCCGAGCGAGGGCTCCAGT	1680
517	Q <u>C</u> R V Q T V R V Q L P D P Q R G L Q Y	536
1681	ACCTGGTGGGTATGCTTCGGCAGAGCCCCGCCCTGACCACCCCTGGATCTCAGCGGCTGCC	1740
537	<u>M</u> V G M <u>M</u> R Q S P A <u>M</u> T T L D <u>M</u> S G C Q	556
1741	AACTGCCCGCCCCCATGGTACCTACCTGTGTGCAGTCCTGCAGCACCAAGGGATGCC	1800
557	<u>M</u> P A P M V T Y <u>M</u> C A V <u>M</u> Q H Q G <u>C</u> G <u>M</u>	576



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FIG. 1C

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FIG. 2A-1



50

1

HLRSSI1	(1)
caspase_recruitment_protein	(1) MAGGAWGRILACYLEFLKKEEELKEFQILANKAHSTRSSSGTPAQPEKTSQG
cryopyrin	(1) -MASTRCKKLARYLEDLEDVDLIKKFQMTHILEDYSPQKGCIPLPRGQTEKADH
Nucleotide_Binding_site	(1) -----MGFNLQALLEQISQDELSKFKYLITTESPAEELQKIPHKEVVDKADG

50

51

HLRSSI1	(1)
caspase_recruitment_protein	(51) MEVASYLVAQYGEQRAMDIAATHWEQMGIRSLCAQAQECAQHSPSPFPYSP
cryopyrin	(50) VDLATEMLDENGEERKAWAWMTEAAINRRDLYEKAKRDEPKWGSDNARV
Nucleotide_Binding_site	(47) KQLVETLTTHCDSYWVEMASTIQMPEKMKHRMDLSERAKDEVREAAALKSENK

100

101

HLRSSI1	(1)
caspase_recruitment_protein	(101) SEPHLGSPSPQPTSTAVLMPWIHELPAGCTQGSERRVLRQLPDTSGRRWRE
cryopyrin	(100) SN--
Nucleotide_Binding_site	(97) RK--

100

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FIG. 2A-2



200

	HLRSSI1	(1)	151
caspase_recruitment_protein	(151)	ISASHLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPQPSITAPREQE	
cryopyrin	(102)	PLS[REDACTED]CQEDS	
Nucleotide_Binding_site	(99)	PLS[REDACTED]GITR-	

201

	HLRSSI1	(1)	201
caspase_recruitment_protein	(201)	APGTQWPIDETSGIMYYTEIREREREKSERKGRPPMWAAYVGTPOAHSS[REDACTED]LQP	
cryopyrin	(111)	[REDACTED]IEEWMGILLEYLSRISICKMVKKDYRKKYRKYVRSRFQCIEDRNARLGESV	
Nucleotide_Binding_site	(107)	KERPPIDVDEMILEREKTEAQDDKDNRCRYILKTRKFEREMWKS[REDACTED]PCDSKEVQV	

251

	HLRSSI1	(1)	251
caspase_recruitment_protein	(251)	HHHP[REDACTED]EPSPVRESLCSITWPWKNEDFNQKFTQLLLQRLPHPRSQDPLVKRSW	
cryopyrin	(161)	SLNKRYTR[REDACTED]RLIKEHRSQQREQELLAIGKTKTCESPV-	
Nucleotide_Binding_site	(157)	MAER[REDACTED]KMLIPFSNPR-	

300



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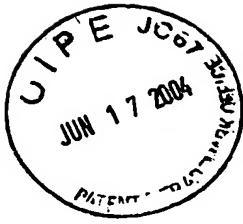
FIG. 2A-3

301 350

HLRSS1	(1)	-
caspase_recruitment_protein	(301)	PDYVEENRGHIEIRDLFGPGD D TQEPRIV T LOGAAGIGK S TLAR Q WKEA
cryopyrin	(199)	-----SP I KMELLIEDP D DDEHSEPV T TYVEQGAAGT G KTI I LARK W MLD
Nucleotide_Binding_site	(172)	-----V I PCPFSYTVVLYGPAG E GKT I TLA Q KL I MLD

351	HLRRS11	(1)	400
	caspase_recruitment_protein	(351)	MLA MLA MLA MLA
	cryopyrin	(241)	QDPIRQLS QDPIRQLS QDPIRQLS QDPIRQLS
	Nucleotide_Binding_site	(202)	TROILS TROILS TROILS TROILS

401	HLRSSI1	(4)	QPORILFILDCADELIP-ALGGP EAAAPCTDP FEAASSCARVIG GELLSKALLP
	caspase_recruitment_protein	(401)	RPERILFILDGVDEPC WVLOQEPSS SELCIE MSOPQAPADALLGSII GKT TLLP
	cryopyrin	(291)	KPSRILF IMDGFD ELOQCAFD DEHICPLCTDWQ KAERGD LIISSI LIRKKILLP
	Nucleotide Binding site	(251)	QARKILFWV IDCGFD ELGAAPGA LIEDICGDWEKKKPVPWL LGSLNTRVMLP



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FIG. 2A-4

451	HLRRSII	(53)	TALIIVTTRAAAPGRLQGRILCSPQCAEVRGESDIDKKKYFYKEFQDEREA
	caspase_recruitment_protein	(451)	EASEFLITARTITLONLIPSLEQARMWEVLGPSSESSRKEYFYRYFEDQERQA
	cryopyrin	(341)	EASLLITTRPVALEKLOHLLIDHPRHVEILGFSEAKRKEYFKYFSDEAQAA
	Nucleotide_Binding_site	(301)	KAAVVVTRPRALRDRIIAEPIPVEGFLEDEDKRAYFLRFQDDEDQA

HLRSS1	(103)	ERAYREVKENETLFALCFVPEVCWIVCTVLEQQMELGRDLISRTSKTTTGV
caspase_recruitment_protein	(501)	IYAFRIVKSNIKEIWAICLVEPWVSMIACTCIMQQMKPKEKLIJUTSKTTTTL
cryopyrin	(391)	RAAFSLTOENEVLFTMCFEPLEVCWIVCTGLKQOME SGKSIAGTSKTTTAV
Nucleotide_Binding_site	(351)	YRAFEILMRSNVALEFOIGSAPAVCWIVCTTLKLOME KGEDPVPTCLTRTG

	HLRSS11	(153) YLFITSVLSSAAPVADGPRILQGDILRNLCPLARECWLGRPAQFANEKELEQI CLHYTLAQALQAQP-----LGPOQLDLCSTIAEGIWOKKTFSPDDLRKH	(551) YVFFLSSILQPERGGSQEHHGICAHLMGLCSLAADGIVNQKILFEEESDLRNH ELRFICSRREP-----OGAOLRGAIRTISLLAAQGLWAOTSVLHREDLERI	(441)	(401)
551	caspase_recruitment_protein				
	cryopyrin				
	Nucleotide Binding site				

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FIG. 2B-1

		650
HLRSSI1	(203)	EIRGSKVOTIFELSKKELPGVITETEVYQFIDOSFQEFIAA[SYLLEDGGV
caspase_recruitment_protein	(595)	GIDGAIISTPFLKG--FLOEPPIPLSYSPFIHLQFQEFEAA[SYMLED[EK-
cryopyrin	(491)	GLOKADVSANFLRMN-[LEQKEVDCEKFYFSFIHMTFQEFEAA[MYYL[EKE
Nucleotide_Binding_site	(446)	GYQESDIRLFDGD-[IIRQDRVSIGCYSFIFLSEFQQQFLTAFYTYLEKE[E
		601
HLRSSI1	(253)	PRTAA[GCG-----VGTLLRCDAAOPHS[LWLTTRFLFGLI[SAAERM[R[D
caspase_recruitment_protein	(642)	-----GRGRKHSNCIIDNEKTLTEAYGTHGLGCASTTRFLFGLI[SDEGERE
cryopyrin	(540)	GRTN[VPGSR[KLPSRD[VILLENY[GKEEKGYLIFWWRFLFGLV[NQERTSY
Nucleotide_Binding_site	(495)	EDRGHTWD[G----DVQKLLSGVERTRNPDLI[QAGYYSFEGLAN[EKRAKE
		701
HLRSSI1	(293)	IEPHF[GCMYSERVKQEALRWVQ[QGQQGCPGVVAPEVTEGAKGLED[TEEEPE[
caspase_recruitment_protein	(686)	MENIFHCRLSQ--GRNL[MOWVPSL-----QLLQPHS-----
cryopyrin	(590)	LEKKISCKISQQIRLELIKMEVK-----AKAKKLLQIQPSQ-----
Nucleotide_Binding_site	(541)	LEATEGCRMSPDTIKQELLRCDISC-----KGCHSTVTDLQ-----
		750



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FIG. 2B-2



751

HLRSSI1
caspase_recruitment_protein
cryopyrin
Nucleotide_Binding_site

(343) EEEGEEPNYPLELLYCLYETQEDAFVHQALCPEELAIQRVRFCRMDVAV
 (716) -----LESLECLYETRKTFIQMVAEFEEMGMC--VETDMELTV
 (626) -----LELEYCLYEMQEEDFVQRAMDVFPPKIEIN--ESTRMDHMV
 (576) -----ELLGCCLYEQEEEVKEWMAQFKEISLE--LNADVDPMP

801

HLRSSI1
caspase_recruitment_protein
cryopyrin
Nucleotide_Binding_site

(393) LS~~S~~CCPAGQALRITSCRIVAACEKKIKS~~G~~KRIQASLGCGSSQ-----
 (754) C~~F~~C~~I~~KFSRHIV~~R~~KL~~Q~~LIEGRQHRSTWSPSMVVLFRWVPVTDAYWQI~~L~~FS-
 (664) SSFC~~T~~ENCHERVESLSILGFI~~H~~NMPKEEEEEEKEGRRLD~~M~~QCVLPSSBAA
 (612) SSFCM~~V~~KHCRN~~M~~QKMSILQV~~K~~EN~~N~~PTASESDAEVERSQDDQHMI~~L~~PFWT

851

HLRSSI1
caspase_recruitment_protein
cryopyrin
Nucleotide_Binding_site

(439) -----
 (803) -----
 (714) CSHG~~E~~VNSH-----
 (662) DLCS~~T~~FGSNKDLIMGIAINDSFLSASILVRILCEQIASDTCHIQRVVEKNIS

800

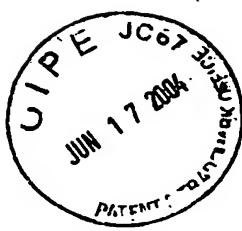
850



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FIG. 2B-3

			901
HLRSSI1	(439)	-----	GTTKQLPASITTEPEFOAMTDPICTLSSLT
caspase_recruitment_protein	(803)	-----	VLKVTRNLKELDLSGNSSLSESAVKSLCKTILRPRCLLETLR
cryopyrin	(725)	-----	SGFCRGFLFSVLISTSQSLTIEDLSDNLSLGDDEGMRFVLCETLQHPGCNIRRLW
Nucleotide_Binding_site	(712)	-----	PADAHNLCTALRCHKTVTYLTQNDQDDMFPA
			950
HLRSSI1	(468)	-----	LSHCKLEDAVCRDLSEALRAAPALTTELCLINRISSEAGLURMLSEGIAWPQ
caspase_recruitment_protein	(844)	-----	LAGCGLTAEDCRDLANGLRANGQELTEDLSDFNVLMDAGAKHLCQRIRQPS
cryopyrin	(775)	-----	LGRCGLSHECCFDISLVISSNQQKLMELDLSDDNAALGDFGIRLLCVGIKHLL
Nucleotide_Binding_site	(762)	-----	LVSCTTQWADLSLIALEVNQSLTCVNLSDNEELDEGAKLLYTTLRRHPK
			951
HLRSSI1	(518)	-----	CRVQITVRQLPDPQ-RGLQYLVCMIRQSPALTLDISGCCOLPAPMVTYLC
caspase_recruitment_protein	(894)	-----	CKLQRLLQIVSGGLTSDDCQDLASVLSASPSLKEFDLQNNLDDMVGVRILLC
cryopyrin	(825)	-----	CNLKKLWLVSCLTSACCQDLASVLSLHSSTLRYCENALGDSGVAILC
Nucleotide_Binding_site	(812)	-----	CFLQRSLIENCHLTEANCDLAAVLUVSREILTHCLAKNPIGNNTGVKEILC
			1000
HLRSSI1	(518)	-----	CRVQITVRQLPDPQ-RGLQYLVCMIRQSPALTLDISGCCOLPAPMVTYLC
caspase_recruitment_protein	(894)	-----	CKLQRLLQIVSGGLTSDDCQDLASVLSASPSLKEFDLQNNLDDMVGVRILLC
cryopyrin	(825)	-----	CNLKKLWLVSCLTSACCQDLASVLSLHSSTLRYCENALGDSGVAILC
Nucleotide_Binding_site	(812)	-----	CFLQRSLIENCHLTEANCDLAAVLUVSREILTHCLAKNPIGNNTGVKEILC
			1050



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FIG. 2B-4

1051	HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(567) AVLQHQCCGLQTLSIASSVELSEQSLOQELQAVKRAAKPDILVITEPALIDGHPQ (944) EGLRHPPACKLIRQLGLDQITLSDDEMROEIYALEQEKKPOLLTESRRKPSVMT (875) EKAQNPOCNLQKLGLVINSCLTSVCCSAISSVLSTNONLTHLYRGNLTQGD (862) EGLRYMPPECKLQTIVLWNCDDITSGCCCDLTKMILQEKGSLLCDDIGLNHIGV	1100
------	--	--	------

1101	HLRRSII caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(617) (994) (925) (912)	P K E L I T S F - - P I E G L D G E M S N S S I R O R I G S E A A H V A Q A N I K I L D V S K I E P I A E K G I K I C E G L I H P D C K I O V L E I D N C N I T S H C C W D I S T I L I T S S Q S I R K I S I L K G M K E L C E A L R K P L C N I R C L W I M G C S T P P E S E D I C S A I S N - Q S I V T I D I
1100			1110

1151	HLRRS11 caspase_recruitment_protein cryopyrin Nucleotide_Binding_site	(626) (1044) (975) (961)	AEESSPEVVPVELTCWSPASQCDLHTKPLGTDDEMGPTGPVATEVVDK GNN--DLGDIGVMMECEVKQQQSCLIONLGLSEMYENYETKSALETIQE GQN---PIGSSGVKMTFETIICSSGTIRRIKIDDENELNKLIIEETEE
1200			



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FIG. 2C-1

1201

HLRSSI1 (626)
caspase_recruitment_protein (1094)
cryopyrin (1022)
Nucleotide_Binding_site (1008)

EKNLYR**VHFFPVAGSMWRWPNTGLCFWVREAVTVEIEFCVWMDOFLGEINPQH**
EKPEIT**TVVFEPGW**
KNPQLI**IDTEKHHPMWAERPSSHDFTI**

1250

HLRSSI1 (626)
caspase_recruitment_protein (1144)
cryopyrin (1035)
Nucleotide_Binding_site (1034)

SMMVAGP**LIDKAEPGAAVEAVHLPHEVALQGGHVDTSLFQVAHFKEEGML**

1251

HLRSSI1 (626)
caspase_recruitment_protein (1194)
cryopyrin (1035)
Nucleotide_Binding_site (1034)

LEKPAR**VELHHIVLENPSFSPLGVLLKMIHNALRFIPVTSVVLLYHRLHP**

1300

HLRSSI1 (626)
caspase_recruitment_protein (1194)
cryopyrin (1035)
Nucleotide_Binding_site (1034)

1350

HLRSSI1 (626)
caspase_recruitment_protein (1194)
cryopyrin (1035)
Nucleotide_Binding_site (1034)



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FIG. 2C-2

1351 1400

HLRSSI1 (626) -----
caspase_recruitment_protein (1244) EEVTFHLYLIPSDCSIRKELELCYRSPGEDOLFSEFFYVGHILGSGIRLQVK
cryopyrin (1035) -----
Nucleotide_Binding_site (1034) -----

1401 1450

HLRSSI1 (626) -----
caspase_recruitment_protein (1294) DRKDETIVWEALVKPGDLMPATTLIPPACIAVPSPLDAAPQLLLHFVDQYRE
cryopyrin (1035) -----
Nucleotide_Binding_site (1034) -----

1451 1500

HLRSSI1 (626) -----
caspase_recruitment_protein (1344) QLIARVTSVEVVLDDKIHGQVLSQEQQYERVLAENTRPSQMRKLFSLSQSWD
cryopyrin (1035) -----
Nucleotide_Binding_site (1034) -----

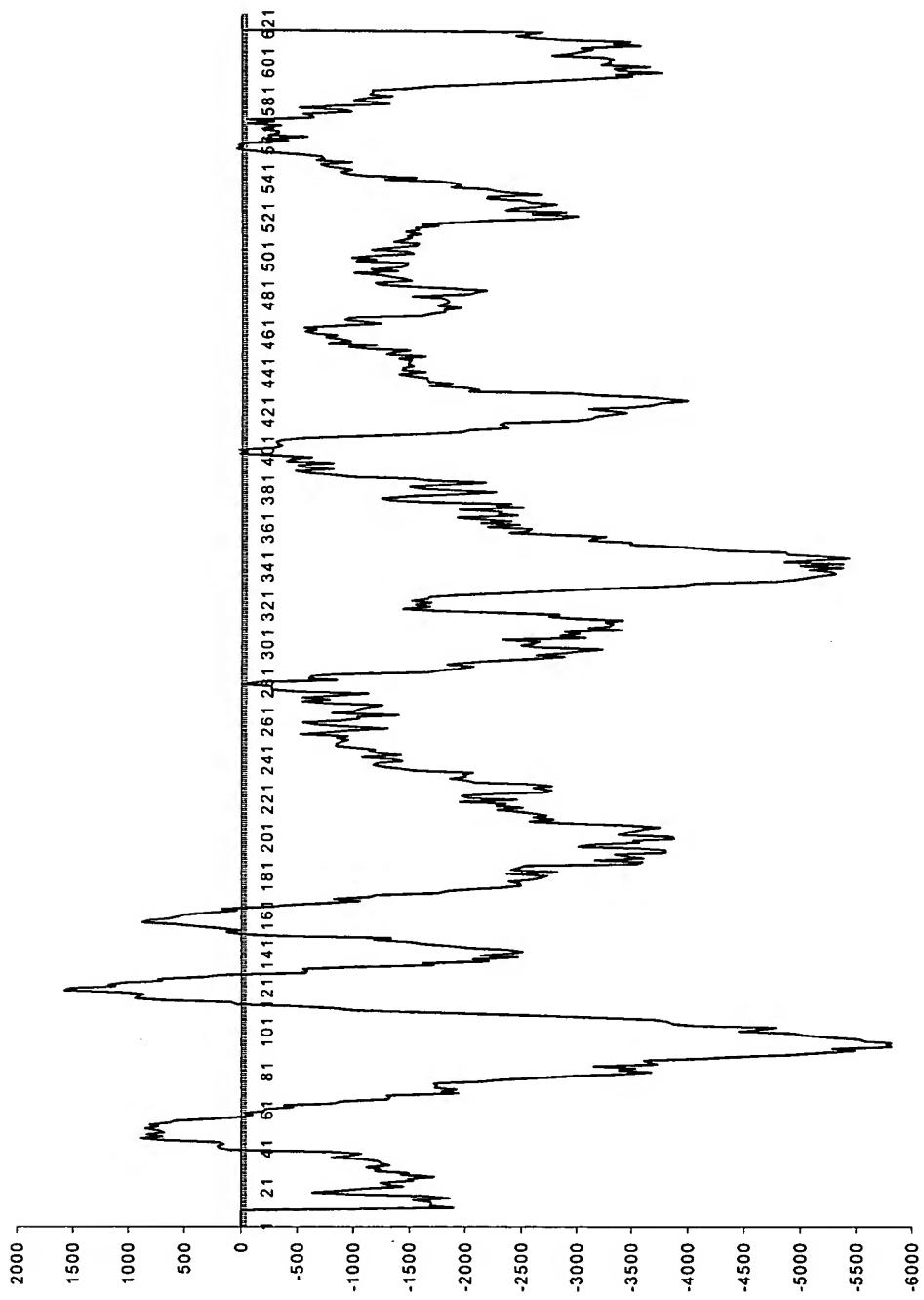
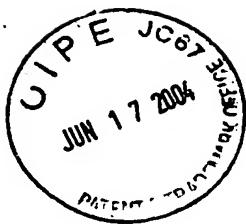
1501 1536

HLRSSI1 (626) -----
caspase_recruitment_protein (1394) RKCKDGGLYQALKETHPHLIMELWEKGSSKKGLLPLSS
cryopyrin (1035) -----
Nucleotide_Binding_site (1034) -----

D0066 NP.

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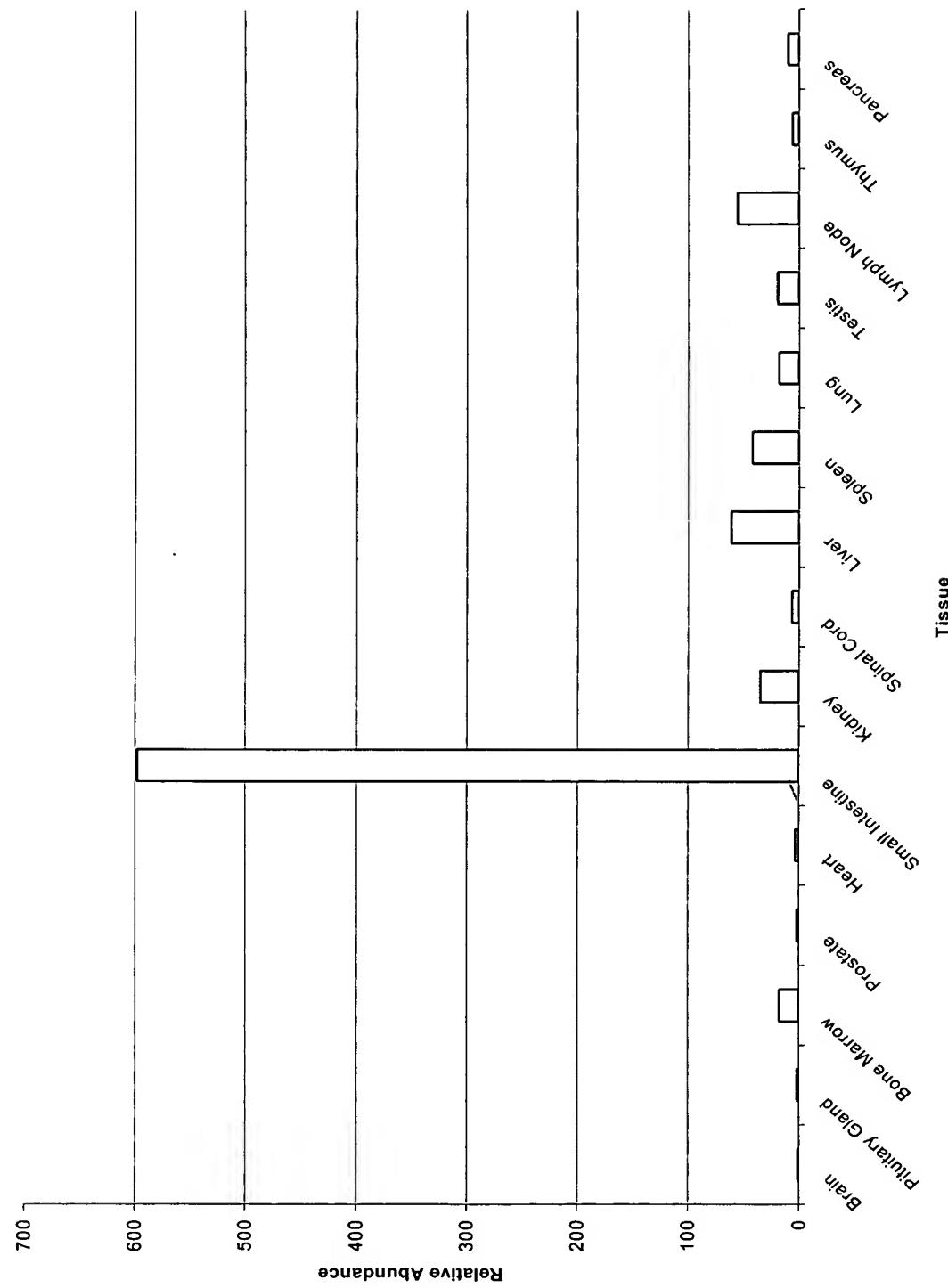
FIG. 3

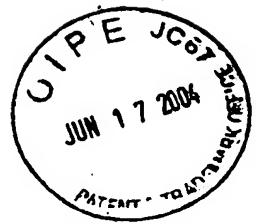


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FIG. 4





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FIG. 5

Protein	Genbank ID	Identities	Similarities
human caspase recruitment protein 7	gi 10198209	36.3%	44.0%
human nucleotide binding site protein	gi 10198207	35.0%	42.2%
human cryopyrin protein	gi 17027237	35.7%	46.0%